

**ABSTRACT****NOVEL 1,4-DIAZABICYCLOALKANE DERIVATIVES,  
THEIR PREPARATION AND USE**

This invention relates to novel 1,4-diazabicycloalkane derivatives and their use in the manufacture of pharmaceutical compositions. The compounds of the invention are found to be cholinergic ligands at the nicotinic acetylcholine receptors and modulators of the monoamine receptors and transporters.

Due to their pharmacological profile the compounds of the invention may be useful for the treatment of diseases or disorders as diverse as those related to the cholinergic system of the central nervous system (CNS), the peripheral nervous system (PNS), diseases or disorders related to smooth muscle contraction, endocrine diseases or disorders, diseases or disorders related to neuro-degeneration, diseases or disorders related to inflammation, pain, and withdrawal symptoms caused by the termination of abuse of chemical substances.

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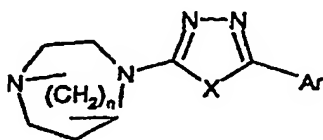
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(I)

(57) Abstract: This invention relates to novel 1,4-diazabicy-  
cloalkane derivatives of formula (I): any of its enantiomers or  
any mixture of its enantiomers, or a pharmaceutically-acceptable  
addition salt thereof, or an N-oxide thereof, and their use in the  
manufacture of pharmaceutical compositions. The compounds of  
the invention are found to be cholinergic ligands at the nicotinic  
acetylcholine receptors and modulators of the monoamine receptors

and transporters. Due to their pharmacological profile the compounds of the invention may be useful for the treatment of diseases  
or disorders as diverse as those related to the cholinergic system of the central nervous system (CNS), the peripheral nervous system  
(PNS), diseases or disorders related to smooth muscle contraction, endocrine diseases or disorders, diseases or disorders related  
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